



Corona Fire Department

Explosives, Blasting and Pyrotechnics Permit Guideline

PURPOSE

The purpose of this guideline is to provide conditions and requirements to companies and individuals who wish to obtain a permit for explosives, blasting, pyrotechnic and/or special effects materials within the City of Corona.

SCOPE

The provisions of these regulations apply to the sale, use, handling, possession, and storage of **explosives** of every class or kind in the City of Corona, unless specifically exempted in the State law.

PERMITS

Permits shall be obtained as required by the 2016 California Fire Code, Section 105.6.15.

1. To manufacture, possess, store, handle, sell, display or use explosives, explosive materials fireworks or pyrotechnic special effects, at any location.
2. To transport explosive materials.
3. To use explosives, explosive materials, fireworks or pyrotechnic special effects.
4. To operate a terminal for handling explosive materials.
5. Permit duration shall be for one year, unless otherwise specified.

California Code of Regulations Title 19, Division 1, Chapter 10, Subchapter 2, Article 3 §1565.1

Permits. No person shall possess, keep, store, sell or offer for sale, give away, use, transport, or dispose in any manner explosives except by permit from the "Chief" having jurisdiction, provided however that these limitations shall not apply to small arms ammunition of .75 caliber or less, cartridges for propellant-actuated power devices, and cartridges for industrial guns, 20 pounds or less of smokeless powder, 5 pounds or less of black sporting powder providing such smokeless or black sporting powder is for the hand loading of small arms or small arms ammunition of .75 caliber or less and that it is for personal use and not for resale.

FIREWORKS DISPLAY REQUIREMENTS

Outdoor fireworks displays, use of pyrotechnics before a proximate audience and pyrotechnic special effects in theatrical and group entertainment productions shall comply with California Code of Regulations, Title 19, Division 1, Chapter 6 – Fireworks, CFC 5601.1.3, 5608 and CA Health & Safety Code Division II.

Fireworks and temporary storage, use and handling of pyrotechnic special effects material used in motion pictures, television, and theatrical and group entertainment productions shall be in accordance with California Code of Regulations, Title 19, Division 1, Chapter 6 – Fireworks, and CFC 5608.1.1.

Refer to Fireworks Permit Guideline for specific requirements.

EXPLOSIVES AND BLASTING REQUIREMENTS

- A. The following requirements are extracted from the California Code of Regulations, Title 19, Division 1, Chapter 10, Subchapter 2, Article 3 and the Federal Department of Transportation. The applicant

shall provide the following details and meet the following conditions for use and storage of explosives and blasting materials:

1. The location of the storage site and the type of magazines being used for storage if storage on site is necessary.
 2. The name of the recipient of the product and the delivery date and approximate time.
 3. A copy of the bond or insurance as required.
 4. A copy of the Certificate of Eligibility issued by the State of California, Department of Justice, for each blaster.
 5. A copy of the permit issued by the Riverside County Sheriff's Department.
 6. The name and address for each blaster and a copy of the Blaster's card issued by the State of California, Division of Occupational Safety and Health.
 - Additionally, the site shall be inspected in conjunction with product arrival for storage. This inspection will determine the accessibility and appropriateness of any storage location at the construction site, when storage is necessary.
 7. **Bond.** Before a permit is issued to use explosive materials, the applicant shall file with the jurisdiction a corporate surety bond in the principal sum of \$1,000,000 or a public liability insurance policy for the same amount for the purpose of the payment of damages to persons or property which arise from, or are caused by, the conduct of an act authorized by the permit upon which a judicial judgment results. The chief is authorized to specify a greater or lesser amount when, in the chief's opinion, conditions at the location of use indicate a greater or lesser amount is required.
 8. **Notice of New Storage and Manufacturing Sites.** When a new explosive material storage or manufacturing location, including a temporary jobsite, is established, the local law enforcement agency, fire department and emergency planning committee shall be notified immediately of the type, quantity and location of explosive materials at the site.
 9. **Delivery Conditions.** Delivery of explosive materials shall be made only to authorized persons and into approved storage, handling or use areas.
- B. The applicant shall provide the following details and meet the following conditions for transportation of explosives and blasting materials:
1. The type of vehicle the explosives will be transported in, along with the gross vehicle weight.
 2. The type and locations of fire extinguishers for the transporting vehicle.
 3. Information which qualifies the driver of the vehicle, i.e., a driver's license.
 4. The name of the recipient of the product and the delivery date and approximate time.
 5. **Transportation.** Explosive materials shall not be carried or transported in or upon a public conveyance or vehicle carrying passengers for hire.
 6. **Vehicle Construction.** Vehicles used for transporting explosive materials shall be strong enough to carry the load without difficulty and shall be in good mechanical condition. If vehicles do not have a closed body, a portable, magazine-type container that is reasonably weather and theft resistant, and securely fastened to the vehicle body, shall be used to contain the explosive materials. Vehicles used for the transportation of explosive materials shall have tight floors and

any exposed, spark producing metal on the inside of the body shall be covered with wood or other nonsparking material to prevent contact with explosive materials.

7. **Authorization.** Explosive materials shall be transported on vehicles authorized by the chief or DOT.
 8. **Fire Protection.** Vehicles used for transporting explosive materials shall be equipped with fire extinguishers according to the following schedule:
 - a. Vehicle - Gross vehicle weight less than 14,000 pounds At least two multipurpose dry chemical extinguishers having a capacity of not less than 4-A:20-B:C.
 - b. Vehicle - Gross vehicle weight 14,000 pounds or greater; tractor/semitrailer At least two multipurpose dry chemical extinguishers having a capacity of not less than 4-A:70-B:C.
 9. **Personnel Qualifications.** Vehicles transporting explosive materials shall be in the custody of drivers who are physically fit; careful; capable; reliable; able to read and write in the English language; not addicted to the use or under the influence of intoxicants, narcotics or DEA-controlled substances; and are not less than 21 years of age. They shall be familiar with federal, state and local traffic regulations and the provisions of Article 77 governing the transportation of explosive materials.
 10. **Placarding.** Vehicles transporting explosive materials shall display placards, lettering or numbering required by DOT.
 11. **Delivery Conditions.** Delivery of explosive materials shall be made only to authorized persons and into approved storage, handling or use areas.
- C. Additionally, The applicant shall adhere to the following requirements as directed by the Corona City Council, for blasting within the City:
1. Blasting shall occur between the hours of 8:00 am and 3:00 pm, weekdays, unless otherwise arranged with the Fire Prevention Division.
 2. A record of each blast, including seismographic data shall be made. This data shall be retained for a period of not less than two (2) years and shall be available to the City of Corona. Such record shall include a minimum of the following information:
 - a. Location, date and time of blast
 - b. Name, signature and license number of the blaster in charge
 - c. Direction and distance, as measured in feet, to the nearest improvement, business or residence.
 - d. Weather conditions, including temperature, wind direction and approximate velocity.
 - e. Number of holes, burden and spacing
 - f. Diameter and depth of holes
 - g. Type of explosives used
 - h. Total weight of explosives detonated, per blast
 - i. Maximum weight of explosives detonated within any eight millisecond period
 - j. Maximum number of holes detonated within any eight millisecond period
 - k. Type of initiation system
 - l. Type of delay detonator and delay periods used
 - m. Type and length of stemming
 - n. Seismic monitoring shall be performed by a company not in the regular employ of the blaster or company responsible for the site and/or blast
 - o. Seismogram including the calibration signal of the gain setting and:

- Seismographic reading, including location of measuring equipment and distance from the blast
- Name of the person taking the seismographic reading
- Name of the person and firm analyzing the seismographic record

Safe ground limit vibration recommended by the U.S. Bureau of Mines (USBM) is a peak particle velocity of 0.5 inch per second at the closest residence.

3. One-hour notification to the fire department shall be made prior to any blasting. The responsible party shall call (951) 736-2222 to notify Corona Police/Fire Dispatch.
 4. Preblast inspections shall be made of all residences and businesses within fifteen hundred (1500) feet of the blasting area. The purpose of this inspection is to identify existing conditions of structures and to determine which of these structures may prove susceptible to the effects of blasting. Documentation including photographs and inspection notes are recommended. Inspections shall be performed by a civil engineer licensed by the State of California who is not in the employ of the company responsible for the blasting operations.
 5. Notification of neighbors within fifteen hundred (1500) feet of the blasting area shall be made. Neighbor notification shall be by first class mail or hand delivery of written notice. Notification shall consist of a letter detailing the necessity for blasting and the necessary safety precautions to be taken. The notification letter shall also describe the blast warning signals (horn) required by the State of California Construction Safety Orders, which will be sounded prior to each blast.
 6. The company responsible for the blasting permit shall record any and all complaints received. Record shall include the name of the complainant, the chief complaint, an investigation, the person responsible for the investigation and the outcome or result of such investigation. Complaint records shall be retained and be made available to the City of Corona upon request.
 7. Airblast shall be no greater than 129 dB from closest neighbor, as measured by a sound instrument with a 6Hz or lower flat response.
- D. For field inspection of blasting/explosives permits, the inspector shall verify:
1. Site Location
 2. Insurance: both transporter and blaster
 3. License: both transporter and blaster, with current cards
 4. Date and time of delivery of explosives, if necessary
 5. Date and time of blast; long term project blasting or single shot
 6. Location of utilities in the vicinity: gas, electric, water, fire alarm, telephone, telegraph, or other. Notification to be made 1 hour in advance to the Emergency Dispatch Center at (951) 736-2222, unless otherwise arranged with the Fire Prevention Bureau.
 - For example, this might be for regularly scheduled blasts, i.e., each Tuesday and Thursday at 11:00 AM, one shot only
 7. Type and location of storage magazine, if any
 8. Amount of explosive product
 9. Current Fire Department Permit for Blasting and/or Explosives available for inspection.